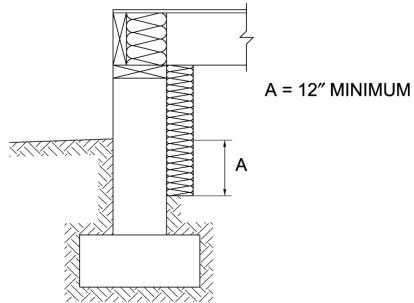


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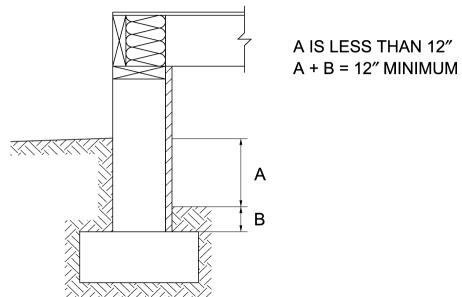
The sections and construction details in Details 502.2.1.5(1), 502.2.1.5(2) and 502.2.1.5(3), and Tables 502.2.3.1(1), 502.2.3.1(2), 502.2.3.1(3), 502.2.3.2, 502.2.3.3, 502.2.3.5 and 502.2.3.6 are intended to be representative and not all-inclusive. Adopting agencies are encouraged to add construction details and sections appropriate to their specific areas.

Utilization of these tables should be correlated with local industry group practices and model code research recommendations.



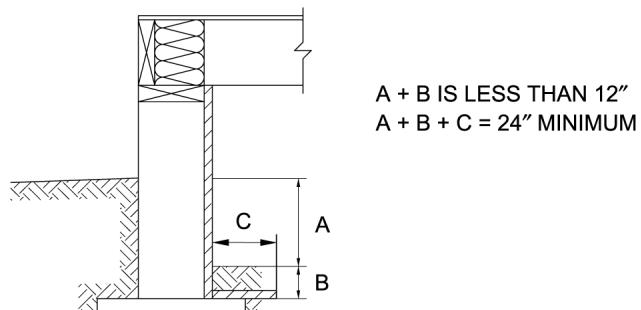
For SI: 1 inch = 25.4 mm.

DETAIL 502.2.1.5(1)
CRAWL SPACE WALL INSULATION—INSTALLATION #1



For SI: 1 inch = 25.4 mm.

DETAIL 502.2.1.5(2)
CRAWL SPACE WALL INSULATION—INSTALLATION #2



For SI: 1 inch = 25.4 mm.

DETAIL 502.2.1.5(3)
CRAWL SPACE WALL INSULATION—INSTALLATION #3^a

- a. Horizontal insulation placed on the inside ground surface shall be permitted where $A + C = 24"$ minimum.

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TABLE 502.2.3.1(1)
WALL ASSEMBLIES
 $(U_w$ selected shall not exceed the U_o determined by Section 502.2.3.1 for any wall section)

WALL DETAILS ²		TYPE AND SPACING OF FRAMING (nominal)	R-VALUE OF CAVITY INSULATION	R-VALUE OF SHEATHING	U_w ^b		
Typical schedules:	Typical exterior finish— 1. Stucco 2. Wood or plywood siding 3. Brick veneer						
Typical interior finish— 1. Gypsum wallboard 2. Lath and plaster 3. 0.375" minimum wood paneling	4" Studs @ 16" o.c.	11	non-insul	0.085			
		13	non-insul	0.076			
		13	3	0.064			
		13	5	0.056			
		13	7	0.051			
		15	non-insul	0.070			
		15	3	0.059			
		15	5	0.053			
		15	7	0.048			
		6" Studs @ 16" o.c.	19	non-insul	0.058		
WOOD STUD CONSTRUCTION			19	3	0.050		
			19	5	0.046		
			19	7	0.041		
			21	non-insul	0.052		
			21	3	0.046		
			21	5	0.042		
			21	7	0.038		
6" Studs @ 24" o.c.		21	non-insul	0.050			
		STEEL STUD CONSTRUCTION			4" Studs @ 16" o.c.	11	non-insul
	INTERIOR FINISH — EXTERIOR FINISH INSULATION — SHEATHING		13	non-insul	0.13		
6" Studs @ 16" o.c.	19	non-insul	0.11				
	4" Studs @ 24" o.c.	11	non-insul	0.12			
4" Studs @ 24" o.c.	13	non-insul	0.11				
	6" Studs @ 24" o.c.	19	non-insul	0.10			

For SI: 1 inch = 25.4 mm.

a. Details shown are for insulation and are not complete construction details.

b. U_w calculated based on the ASHRAE *Handbook of Fundamentals*.

TABLE 502.2.3.1(2)
WALL ASSEMBLIES
(U_w selected shall not exceed the U_o determined by Section 502.2.3.1 for any wall section)

WALL DETAILS^f	R-VALUE OR TYPE	U_w AND R_o FOR WALL THICKNESS LISTED^a				
		6"	8"	10"	12"	
Plain concrete masonry Block construction	No insulation	U_w R_o	0.37 2.70	0.33 3.03	0.31 3.23	0.30 3.33
	No interior finish					
	Loose fill in cores	U_w R_o	0.18 5.56	0.13 7.69	0.11 9.09	0.09 11.11
	No interior finish					
	No insulation	U_w R_o	0.24 4.17	0.23 4.35	0.22 4.55	0.21 4.76
	Interior finish					
	No insulation	U_w R_o	0.18 5.56	0.17 5.88	0.16 6.25	0.16 6.25
	Foil-backed gypsum board interior finish					
	1" extruded polystyrene	U_w R_o	0.13 7.69	0.13 7.69	0.12 8.33	0.12 8.33
	Interior finish					
	2" expanded polystyrene	U_w R_o	0.09 11.11	0.09 11.11	0.09 11.11	0.09 11.11
	Interior finish					
	2" extruded polystyrene	U_w R_o	0.08 12.50	0.08 12.50	0.08 12.50	0.08 12.50
	Interior finish					
Cavity insulation and interior finish: 0.5-inch gypsum board on furring strips	2" polyisocyanurate	U_w R_o	0.06 16.67	0.06 16.67	0.06 16.67	0.06 16.67
	Interior finish					
	R-11, 2 × 3 studs	U_w R_o	0.07 14.29	0.07 14.29	0.07 14.29	0.07 14.29
	Interior finish					
	R-13, 2 × 3 studs	U_w R_o	0.06 16.67	0.06 16.67	0.06 16.67	0.06 16.67
	Interior finish					
	R-19, 2 × 4 studs	U_w R_o	0.05 20.00	0.05 20.00	0.05 20.00	0.05 20.00
	Interior finish					
	MULTI-WYTHE WALLS		U_w AND R_o FOR WALL THICKNESS LISTED^{b,c,d,e}			
			8"	10"	12"	14"
	No insulation	U_w R_o	0.32 3.13	0.26 3.85	0.24 4.17	0.22 4.55
	No interior finish					
	Loose fill in cavity	U_w R_o	NA NA	0.12 8.33	0.12 8.33	0.11 9.09
	No interior finish					
	Loose fill	U_w R_o	0.11 9.03	0.10 10.00	0.10 10.00	0.10 10.00
	Interior finish					
	Loose fill foil-backed gypsum board	U_w R_o	0.10 10.00	0.09 11.11	0.09 11.11	0.09 11.11
	Interior finish					
	1" expanded polystyrene in cavity	U_w R_o	NA NA	0.13 7.69	0.12 8.33	0.12 8.33
	Interior finish					
	2" expanded polystyrene in cavity	U_w R_o	NA NA	0.08 12.50	0.08 12.50	0.08 12.50
	Interior finish					
	1" extruded polystyrene in cavity	U_w R_o	NA NA	0.11 9.09	0.11 9.09	0.11 9.09
	Interior finish					
	2" extruded polystyrene in cavity	U_w R_o	NA NA	0.07 14.29	0.07 14.29	0.07 14.29
	Interior finish					
	1" polyisocyanurate in cavity	U_w R_o	NA NA	0.08 12.50	0.08 12.50	0.08 12.50
	Interior finish					
	2" polyisocyanurate in cavity	U_w R_o	NA NA	0.05 20.00	0.05 20.00	0.05 20.00
	Interior finish					
	1" expanded polystyrene in cavity foil-backed gypsum board	U_w R_o	NA NA	0.09 11.11	0.09 11.11	0.09 11.11
	Interior finish					
	1" extruded polystyrene in cavity foil-backed gypsum board	U_w R_o	NA NA	0.08 12.50	0.08 12.50	0.08 12.50
	Interior finish					

For SI: 1 inch = 25.4 mm, 1 pound per cubic foot = 0.1572 kg/m³.

a. The U_w values are for blocks made with concrete having a density of 80 pounds per cubic foot; for other densities, the U_w must be calculated based on the R -values provided in NCMA 6-1A or the ASHRAE *Handbook of Fundamentals*.

b. 8" composite wall: 4" dense outer wythe and hollow-unit inner wythe.

c. 10" cavity wall: 4" dense outer wythe, 2" air space and 4" hollow-unit inner wythe.

d. 12" cavity wall: 4" dense outer wythe, 2" air space and 6" hollow-unit inner wythe.

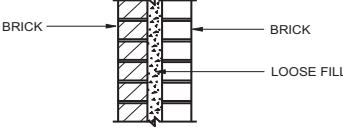
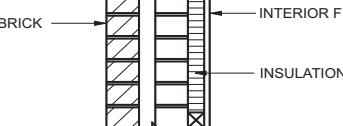
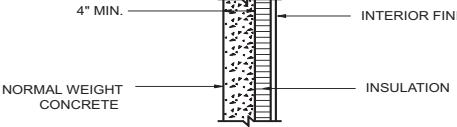
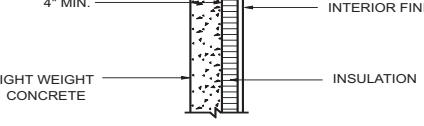
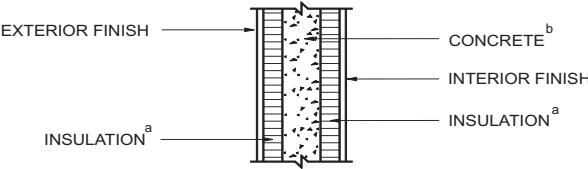
e. 14" cavity wall: 4" dense outer wythe, 2" air space and 8" hollow-unit inner wythe.

f. Refer to drawings in Tables 502.2.3.1(1) and 502.2.3.1(3).

NA = Not Applicable.

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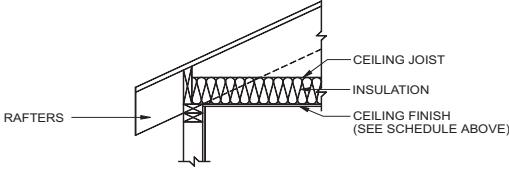
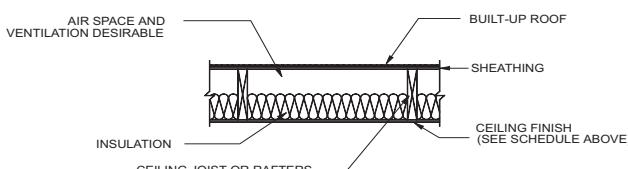
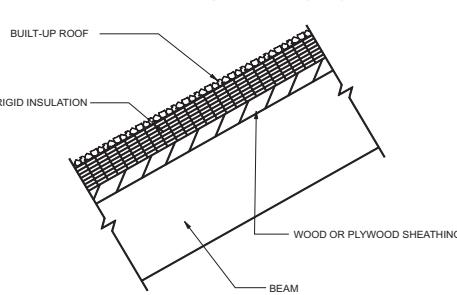
TABLE 502.2.3.1(3)
WALL ASSEMBLIES
 $(U_w$ selected shall not exceed the U_o determined by Section 502.2.3.1 for any wall section)

WALL DETAILS ^d	R-VALUE OF INSULATION	U_w	R_o
Interior finish 0.25" gypsum board applied on furring strips			
BRICK MASONRY CONSTRUCTION WITH LOOSE FILL 	Solid grout in space	0.38	2.63
	2" space with loose fill R-4	0.16	6.25
	4" space with loose fill R-8	0.10	10.00
BRICK MASONRY CONSTRUCTION WITH INSULATION 	4	0.12	8.33
	6	0.09	11.11
	11	0.07	14.29
NORMAL-WEIGHT CONCRETE CONSTRUCTION 	4	0.18	5.56
	6	0.13	7.69
	7	0.12	8.33
	11	0.08	12.50
LIGHTWEIGHT CONCRETE CONSTRUCTION 	4	0.17	5.88
	6	0.12	8.33
	7	0.11	9.09
	11	0.08	12.50
INSULATING CONCRETE FORM SYSTEM (ICF) ^c 	12	0.07	13.55
	15	0.06	16.55
	16	0.06	17.55
	17	0.05	18.55
	20	0.05	21.55
	22	0.04	23.55

For SI: 1 inch = 25.4 mm.

- a. The R -value listed is the sum of the values for the exterior and interior insulation layers.
- b. The manufacturer shall be consulted for the U_w and R_o values if the insulated concrete form system (ICF) uses metal form ties to connect the interior and exterior insulation layers.
- c. These values shall be permitted to be used for concrete masonry wall assemblies with exterior and interior insulation layers.
- d. Details shown are for insulation and are not complete construction details.

TABLE 502.2.3.2
ROOF/CEILING ASSEMBLIES
(U_r selected shall not exceed the value specified in Section 502.2.3.2)

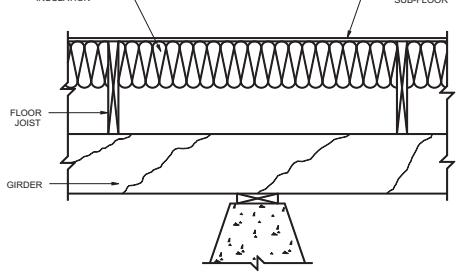
ROOF DETAILS ^{a,b}	R-VALUE OF INSULATION ^b	U _r	R _o
Typical interior finish schedule: 1. Gypsum wallboard 2. Lath & plaster			
	19	0.05	20.00
	22	0.04	25.00
	30	0.03	33.33
	38	0.025	40.00
	19	0.05	20.00
	22	0.04	25.00
	30	0.03	33.33
	38	0.025	40.00
	Wood decking		
	9	0.08	12.50
Plywood			
	10	0.08	12.50
	19	0.05	20.00
	30	0.03	33.33

a. Details shown are for insulation and are not complete construction details.

b. Skylights not exceeding one percent of the roof are permitted.

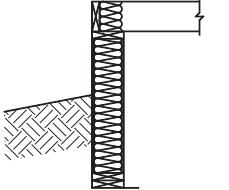
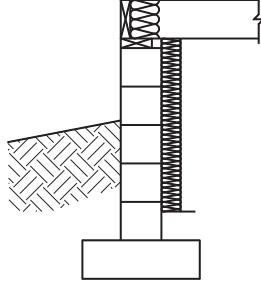
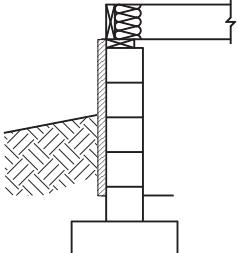
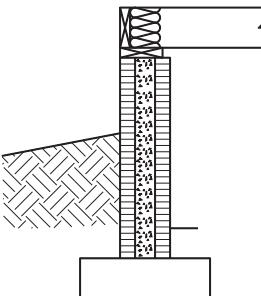
c. Insulation installed between joints.

TABLE 502.2.3.3
FLOOR ASSEMBLIES
(U_r selected shall not exceed the U_o specified in Section 502.2.3.3)

FLOOR DETAILS ^a	R-VALUE OF INSULATION	U _r	R _o
	No insulation	0.32	3.13
	7	0.11	9.09
	11	0.08	12.50
	19	0.05	20.00

a. Details shown are for insulation and are not complete construction details.

TABLE 502.2.3.5
CRAWL SPACE FOUNDATION WALL ASSEMBLIES
(U-factor selected shall not exceed the U-factor determined by Section 502.2.3.5)

WALL DETAILS ^a	R-VALUE OF INSULATION	U-FACTOR
WOOD FOUNDATION 	11	0.10
	13	0.09
	19	0.06
CONCRETE/MASONRY FOUNDATION—INTERIOR INSULATION 	5	0.15
	10	0.08
	11	0.08
	13	0.07
	19	0.05
CONCRETE/MASONRY FOUNDATION—EXTERIOR INSULATION 	3	0.20
	5	0.15
	10	0.08
	15	0.06
INSULATING CONCRETE FORM SYSTEM (ICF)^{b, c, d} 	12	0.08
	15	0.06
	16	0.06
	17	0.06
	20	0.05
	22	0.04

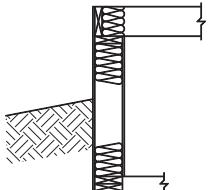
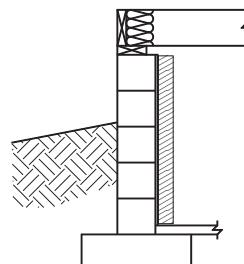
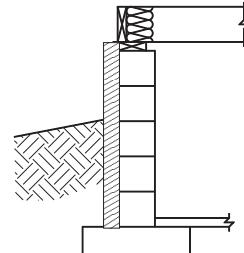
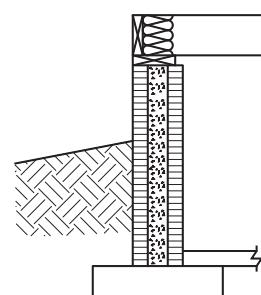
a. Details shown are for insulation and are not complete construction details.

b. The R-value listed is the sum of the values for the exterior and interior insulation layers.

c. The manufacturer shall be consulted for the U-factor if the insulated concrete form system (ICF) uses metal form ties to connect the interior and exterior insulation layers.

d. These values shall be permitted to be used for concrete masonry wall assemblies with exterior and interior insulation layers.

TABLE 502.2.3.6
BASEMENT FOUNDATION WALL ASSEMBLIES
(U-factor selected shall not exceed the U-factor determined by Section 502.2.3.6)

WALL DETAILS ^a	R-VALUE OF INSULATION	U-FACTOR
WOOD FOUNDATION 	11	0.08
	13	0.08
	19	0.06
CONCRETE/MASONRY FOUNDATION—INTERIOR INSULATION 	5	0.15
	6.5	0.12
	10	0.08
	11	0.08
	19	0.06
CONCRETE/MASONRY FOUNDATION—EXTERIOR INSULATION 	3	0.20
	5	0.15
	10	0.09
	15	0.06
INSULATING CONCRETE FORM SYSTEM (ICF)^{b, c, d} 	12	0.07
	15	0.06
	16	0.06
	17	0.05
	20	0.05
	22	0.04

a. Details shown are for insulation and are not complete construction details.

b. The R-value listed is the sum of the values for the exterior and interior insulation layers.

c. The manufacturer shall be consulted for the U-value if the insulated concrete form system (ICF) uses metal form ties to connect the interior and exterior insulation layers.

d. These values shall be permitted to be used for concrete masonry wall assemblies with exterior and interior insulation layers.

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